SONY

FM/AM PLL SYNTHESIZED RECEIVER

ICF-2001

OPERATING INSTRUCTIONS

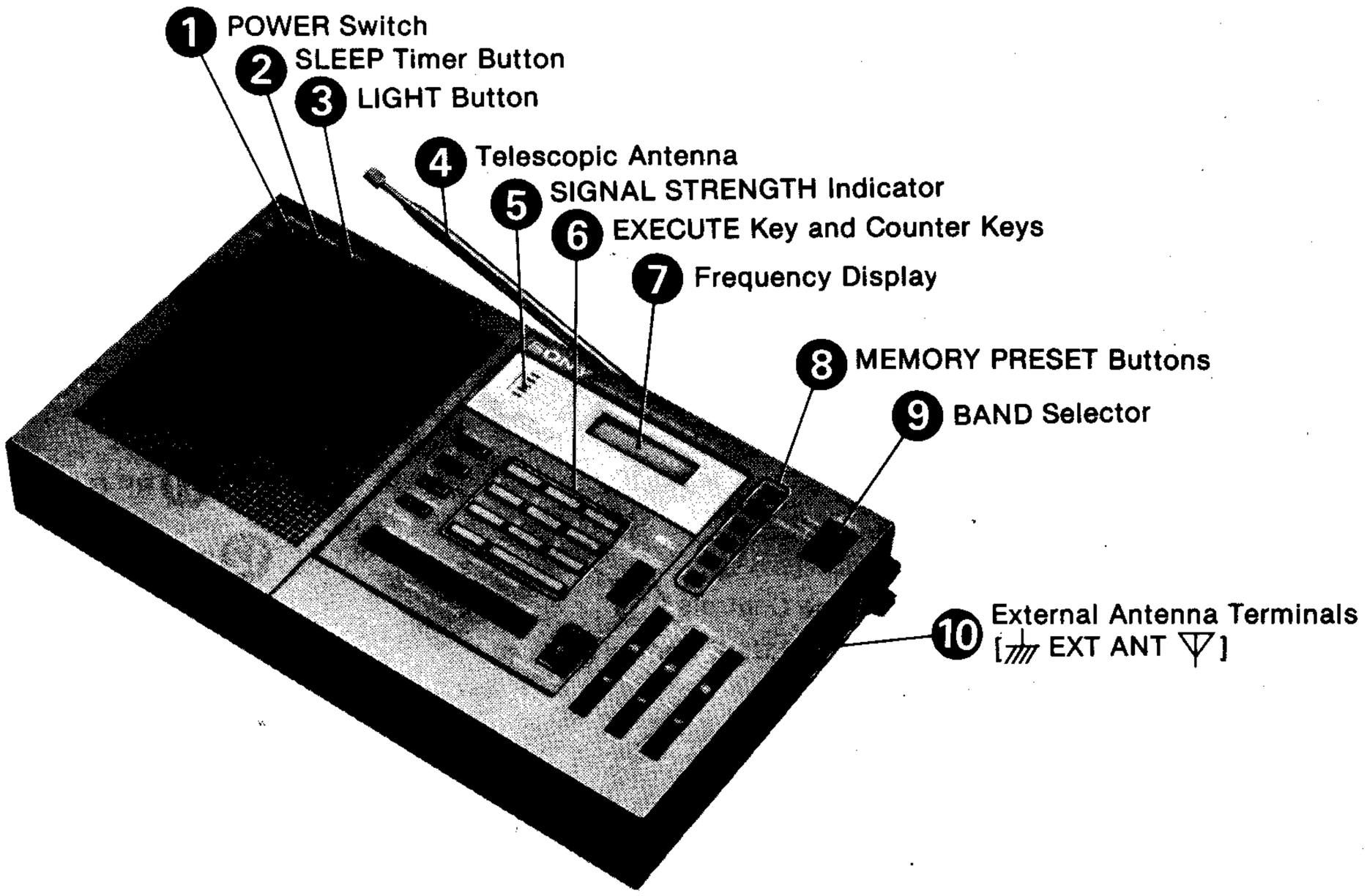
Before operating the set, please read this manual thoroughly.
This manual should be retained for future reference.

LOCATION AND FUNCTION OF CONTROLS

Front panel and right side

Green key marks on the radio

- ● for scanning or presetting
- □ for AM (LW, MW, SW) reception
- ■ for SSB/CW reception



❶ POWER Switch
Set this switch to ON to turn on the radio.
To turn off, set it to OFF.

❷ SLEEP Timer Button
Press this button to set the sleep timer. See page 11.

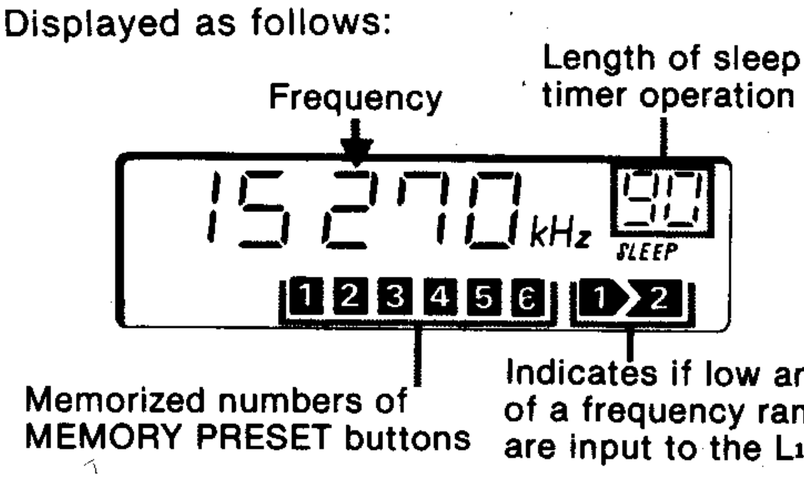
❸ LIGHT Button
If you press this button when the POWER switch is set to ON, the Frequency Display will be illuminated.

❹ Telescopic Antenna
Used for both FM and AM (LW, MW, SW) reception.

❺ SIGNAL STRENGTH Indicator
The 5 LED indicators show the strength of the tuned signal—the more LEDs illuminated, the better the tuning.

❻ EXECUTE Key and Counter Keys
Used to input a frequency. If you punch in a desired frequency with the Counter Keys, the frequency will appear in the Frequency Display. Press the EXECUTE key to tune the frequency in. This is called "Direct Tuning".

❼ Frequency Display
Displayed as follows:


Frequency
Length of sleep timer operation
15270 kHz
90
SLEEP
1 2 3 4 5 6
1 2
Memorized numbers of MEMORY PRESET buttons
Indicates if low and high limits of a frequency range for Scan Tuning are input to the L1 and L2 keys.

❽ MEMORY PRESET Buttons
After tuning a station in, first hold down the ENTER key, then press one of the six MEMORY PRESET buttons to memorize the station. An FM station or an AM station can be preset to a button.

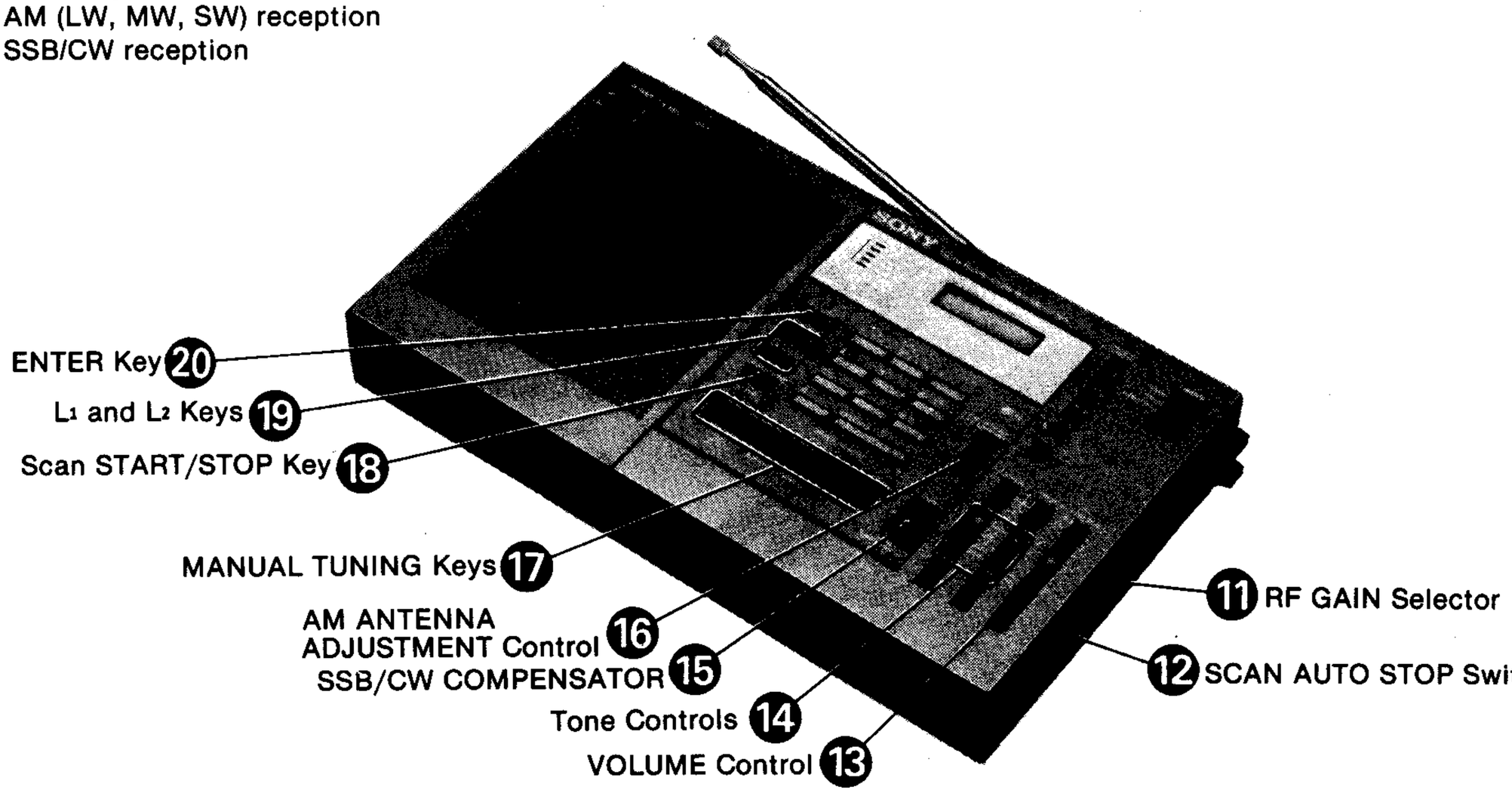
❾ BAND Selector
Choose the desired band.
FM: for FM reception
AM: for LW, MW or SW reception
SSB/CW: for SSB (single sideband) or CW (International Morse Code) reception.

❿ External Antenna Terminals [EXT ANT]
For connecting an external antenna. The terminal is for the antenna and the terminal for the ground. See page 12.

Front panel and right side

Green key marks on the radio

- ● for scanning or presetting
- □ for AM (LW, MW, SW) reception
- ■ for SSB/CW reception



⓫ RF GAIN Selector

Used for AM reception, which means MW, LW and SW (including SSB/CW) reception.

SW: Usually set this selector to DX.

MW/LW: Usually set this selector to NORMAL. When receiving a weak signal, set it to DX.

● When receiving a strong signal, or at night when it is difficult to pick up a weak signal because of interference from many other signals, set this selector to NORMAL or LOCAL.

⓬ SCAN AUTO STOP Switch

When this switch is set to ON, scanning stops automatically when a station is received during the scanning mode.

⓭ VOLUME Control

⓮ Tone Controls

BASS: Slide this control towards $\overset{+}{10}$ for more bass and towards $\overset{10}{-}$ for less bass.

TREBLE: Slide this control towards $\overset{+}{10}$ for more treble and towards $\overset{10}{-}$ for less treble.

⓯ SSB/CW COMPENSATOR

Use this control to tune more accurately to SSB/CW frequencies by adding or subtracting up to 6 kHz to the frequency displayed in the Frequency Display. The Frequency Display itself will not change, however.

⓰ AM ANTENNA ADJUSTMENT Control

Used for adjusting the AM antenna. Turn this control for optimum AM reception: MW, LW and SW (including SSB/CW).

⓱ MANUAL TUNING Keys

Count Up Key [UP ▶] and Count Down Key [◀ DOWN]

If you press the UP ▶ (or ◀ DOWN) key once, the tuned frequency will be increased (or decreased) by the following intervals:

FM: 0.1 MHz

AM: 1 kHz

If you keep the key depressed, the frequency changes continuously.

FAST Key

If you keep the FAST and UP ▶ (or ◀ DOWN) keys depressed simultaneously, the frequency changes by the following intervals:

FM: 0.2 MHz

AM: 10 kHz

⓲ Scan START/STOP Key

After inputting the high and low limits of a frequency range to the L1 and L2 keys, if you press the START/STOP key, the radio begins searching for a station scanning from the low limit of the frequency range to the high.

With the SCAN AUTO STOP switch on the right side set to ON, scanning stops automatically when a station is received. With the SCAN AUTO STOP switch set to OFF, scanning does not stop automatically. Press the START/STOP key again to stop the scanning. Refer to "SCAN TUNING", page 10.

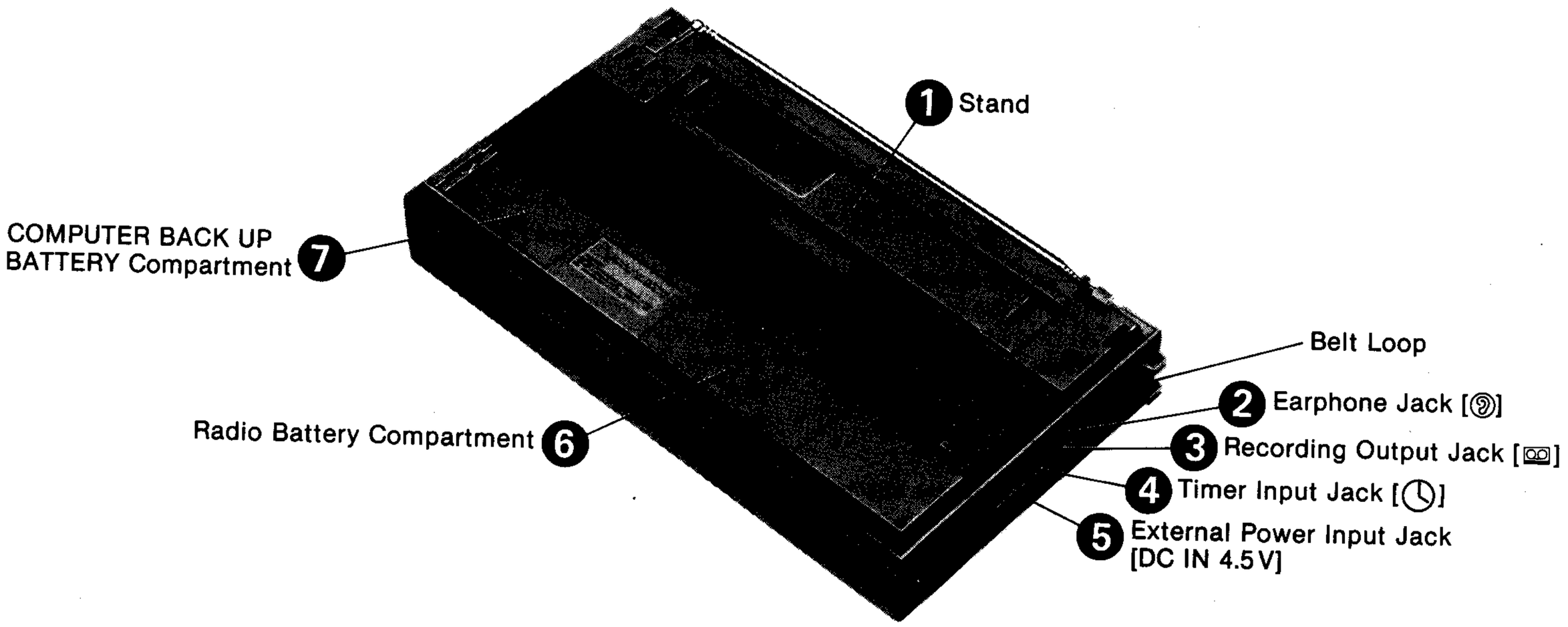
⓳ L1 and L2 Keys

Used with the ENTER key to input high and low limits of the frequency range necessary for Scan Tuning.

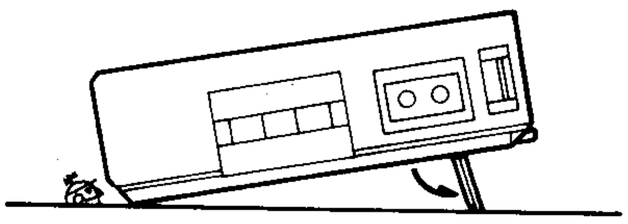
⓴ ENTER Key

Used to input a station to a MEMORY PRESET button, or with the L1 and L2 keys the limits of a frequency range.

Rear and left side


1 Stand
COMPUTER BACK UP
BATTERY Compartment 7
Belt Loop
2 Earphone Jack [ ]
Radio Battery Compartment 6
3 Recording Output Jack [ ]
4 Timer Input Jack [ ]
5 External Power Input Jack
[DC IN 4.5 V]

❶ Stand
Raise the stand as illustrated for easy use.



❷ Earphone Jack [ ]
For private listening with an earphone. When the earphone is plugged in, the speaker is automatically disconnected.

❸ Recording Output Jack [ ]
For recording radio programs with a tape recorder.
Connect this jack to the microphone input jack of the tape recorder with a suitable cord. In the case of a Sony tape recorder, use the Sony Connecting Cord RK-69A (optional).

❹ Timer Input Jack [ ]
For turning the radio on or off automatically at the desired time using a suitable timer. Such timers are not currently produced by Sony.

❺ External Power Input Jack [DC IN 4.5 V]
For operation from an external power source.

❻ Radio Battery Compartment

❼ COMPUTER BACK UP BATTERY Compartment

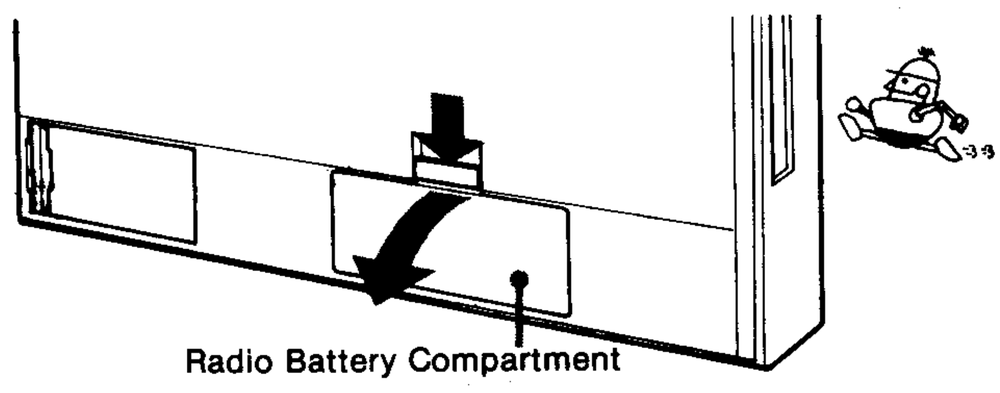
RADIO POWER SOURCES

For radio operation, computer batteries as well as radio batteries are necessary.

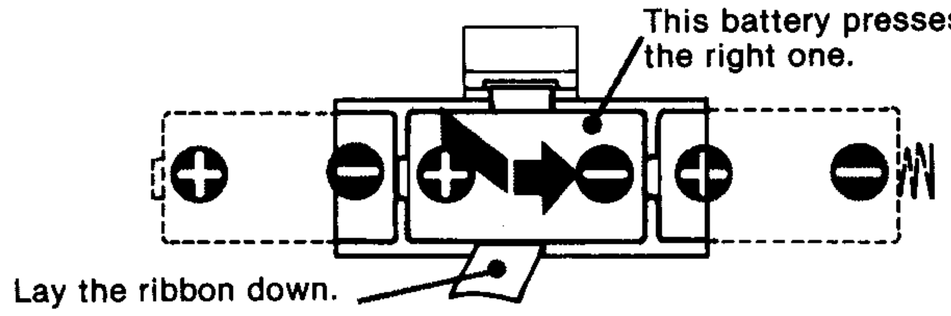
BATTERIES

Radio battery installation

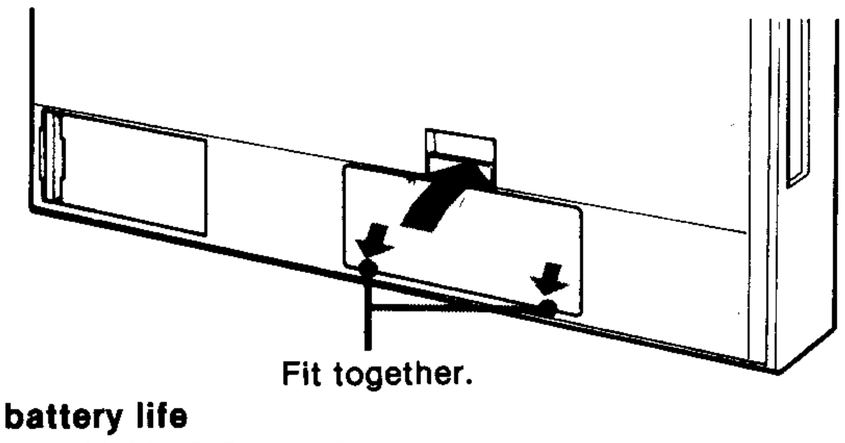
❶ Open the Radio Battery Compartment lid.



❷ Insert three IEC designation R20 batteries (D size) with correct polarity.



❸ Close the lid.



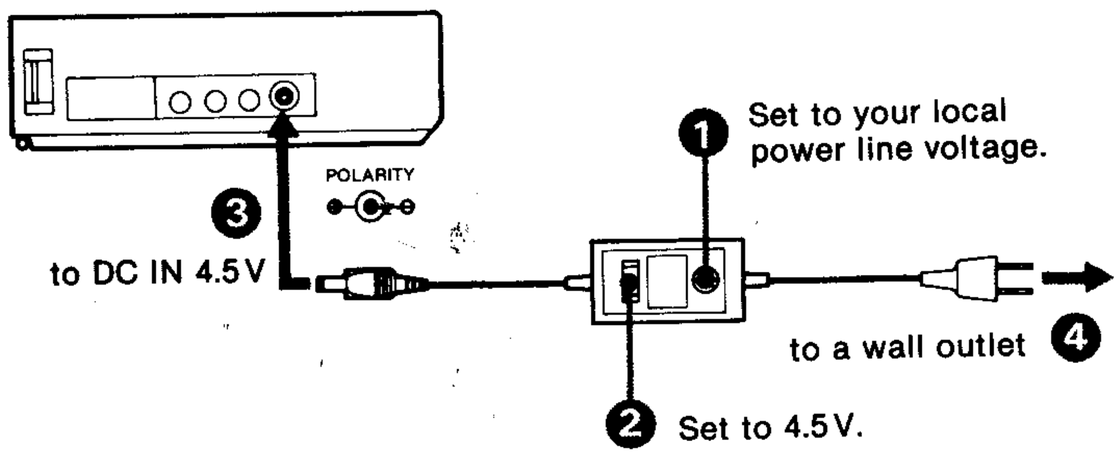
Radio battery life

With Sony SUM-1S Super Batteries, listening in a room at a normal sound level and operating the set four hours a day, you can expect:
about 10 hours of use if tuned to FM stations only
about 9 hours of use if tuned to AM stations only

● When the sound becomes weak or distorted, replace all batteries.

HOUSE CURRENT

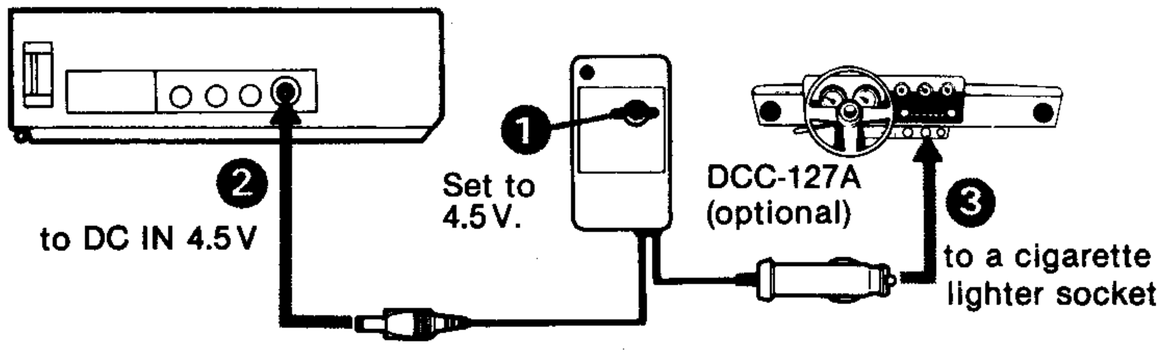
Connect the Sony AC-122 AC Power Adaptor (optional) as illustrated.



● Before connecting, be sure to read the instruction manual for the adaptor.
● When the ac power adaptor is connected to the radio DC IN 4.5 V jack, the internal batteries (if present) are automatically disconnected.

12V CAR BATTERY

Connect the Sony DCC-127A Car Battery Cord (optional) as illustrated.



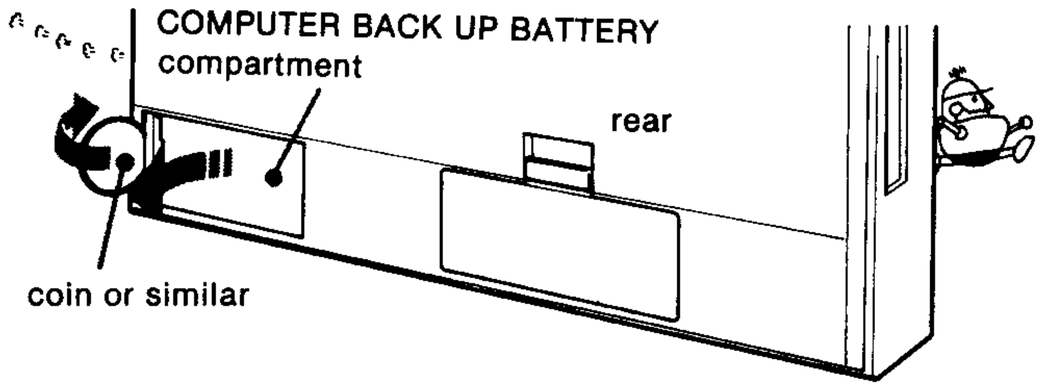
● Before Connecting, be sure to read the instruction manual for the car battery cord.
● When the car battery cord is connected to the radio DC IN 4.5 V jack, the internal batteries (if present) are automatically disconnected.
● Reception may be affected by ignition noise while the engine is in operation.

COMPUTER BATTERIES

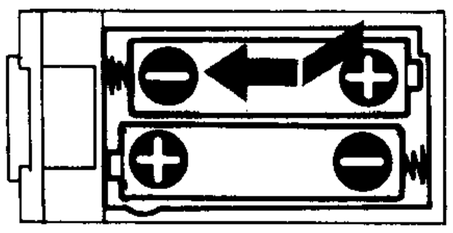
Since this radio is controlled by a microcomputer, the computer batteries must be installed when you operate the radio. If not, the computer will not operate, nothing will appear in the Frequency Display, and the radio will not function properly.

Computer battery installation

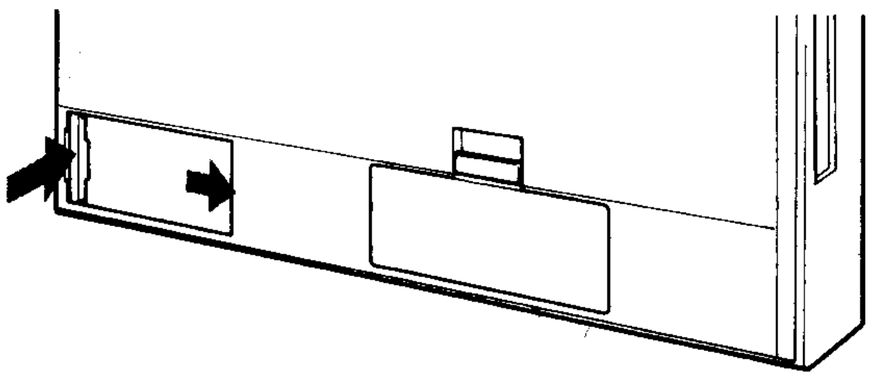
❶ Open the COMPUTER BACK UP BATTERY compartment lid.



❷ Insert two IEC designation R6 batteries (AA size) with correct polarity.



❸ Close the lid.



After installation of the radio and computer batteries, when you set the POWER switch to ON, irregular figures or letters may appear in the Frequency Display, but after a few seconds the radio will begin to operate on the following frequencies:
FM: 87.50 MHz
AM: 150 kHz

Computer battery life

About one year of operation can be expected when using Sony SUM-3S Super Batteries.
Note: Be sure to replace the computer batteries once a year to avoid damage from leaking batteries.

Notes on replacement of the computer batteries

- When computer batteries are removed, preset stations and frequencies input to the L_1 and L_2 keys will be erased. After replacing the computer batteries, be sure to preset again.
- Insert new computer batteries **one minute or more after** removing old ones. If this is not done, frequencies may not be displayed properly or cannot be input.

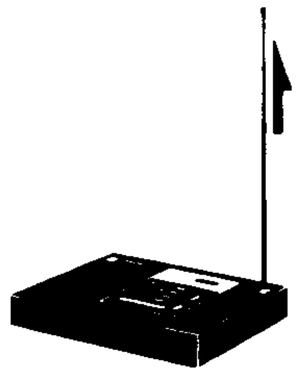
Note: When the air is especially dry, the following may be caused by static electricity, but there is no cause for alarm:
- The indication in the Frequency Display disappears.
- Irregular figures appear in the Frequency Display.
- The indication preset at the factory—FM 87.50 MHz or AM 150 kHz—appears in the Frequency Display.
- Frequencies cannot be tuned in.

If any of these things happen, remove and reinstall the computer batteries.

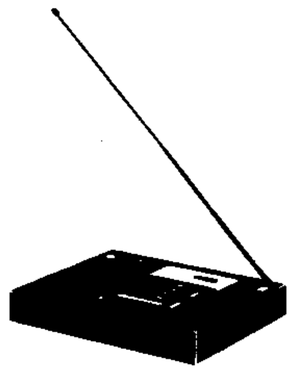
ANTENNA ADJUSTMENT

FOR AM (LW, MW, SW) RECEPTION

Pull the Telescopic Antenna out to its full length.



For AM reception of 360 kHz to 2,143 kHz, the built-in ferrite bar antenna also operates. Since this antenna is directional, lay the set down and rotate it to find the optimum position.
- If there is a fluorescent lamp just above the set and reception is noisy, incline and shorten the Telescopic Antenna.



FOR FM RECEPTION

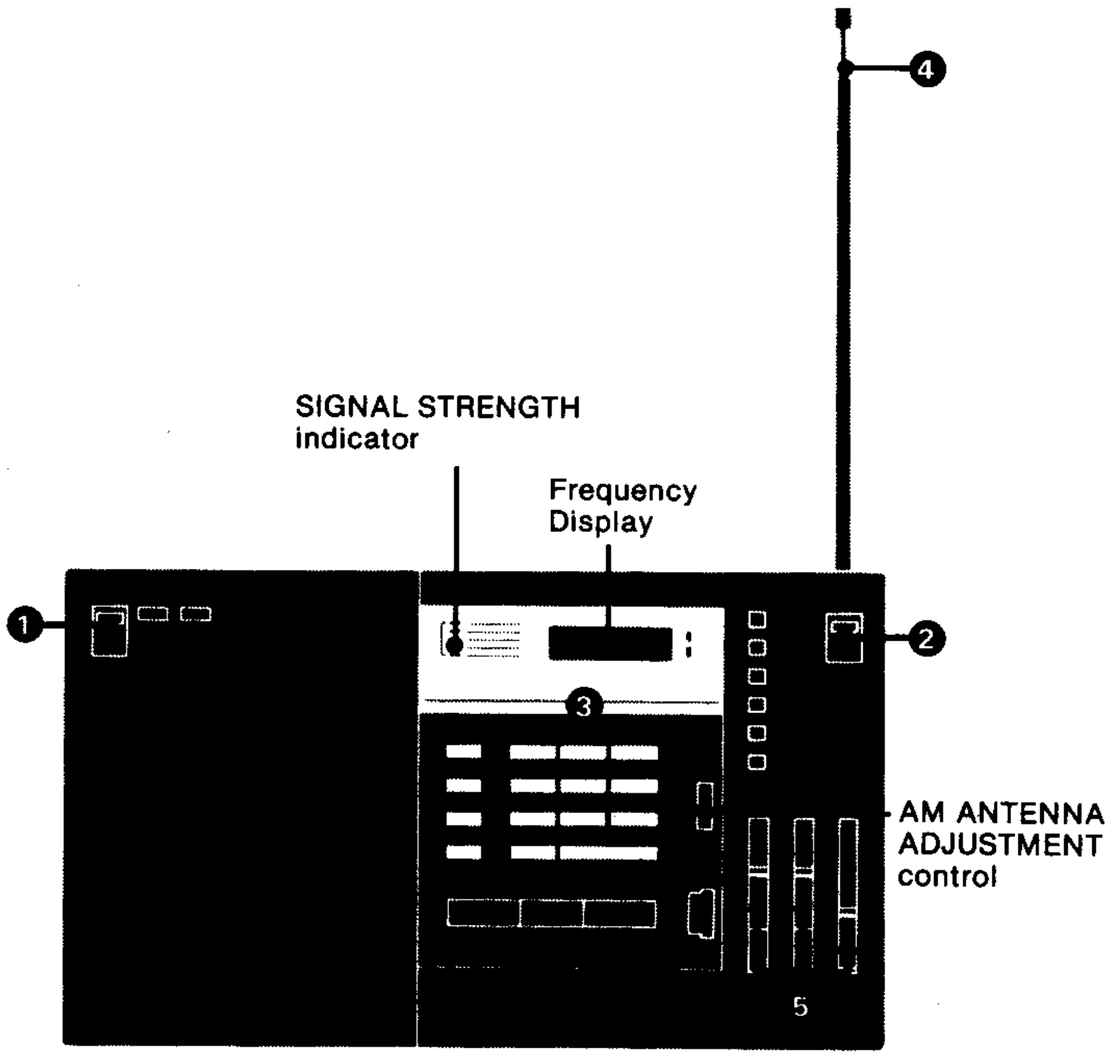
Pull out the Telescopic Antenna and adjust its length, angle and direction for optimum reception.

NOTES
- If reception is unsatisfactory with the Telescopic Antenna or the built-in ferrite bar antenna, connect an external antenna. When using an external antenna, retract the Telescopic Antenna. To connect an external antenna, see page 12.
- In vehicles or in buildings, radio reception (especially LW and MW reception) may be difficult or noisy. Try listening near a window.

DIRECT TUNING

If you know the frequency of a station to be received, you can tune in the station easily by Direct Tuning.

● The numbers in the illustration refer to the sequence of operation.



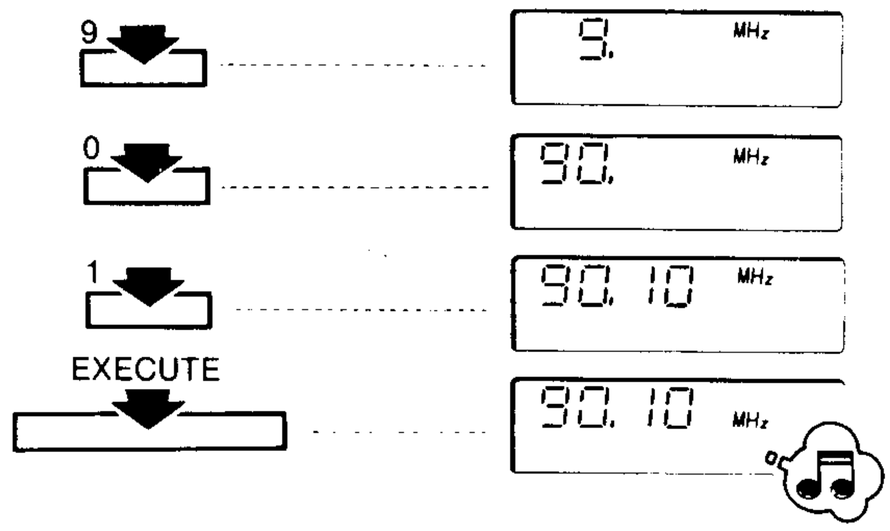
❶ Set the POWER Switch to ON.
❷ Choose the desired band with the BAND selector.
❸ Pressing the Counter Keys, input the frequency of the station to be received. (For example, to input AM 6,055 kHz, press the Counter Keys in the order 6, 0, 5, 5.) The frequency will appear in the Frequency Display. Then, within 10 seconds, press the EXECUTE key. The station will be tuned in. Refer to "HOW TO INPUT A FREQUENCY TO THE KEYS".
❹ Adjust the Telescopic Antenna. See page 7.
For optimum AM reception, also adjust the AM ANTENNA ADJUSTMENT control.
Note: For AM 360 kHz to 2,143 kHz reception, the built-in ferrite bar antenna also operates. Lay the set down and rotate it to find the optimum position.
❺ Adjust the volume with the VOLUME control and tone quality with the BASS and TREBLE controls.

● The SIGNAL STRENGTH indicator shows the strength of the tuned signal. The more LEDs illuminated, the better the tuning.

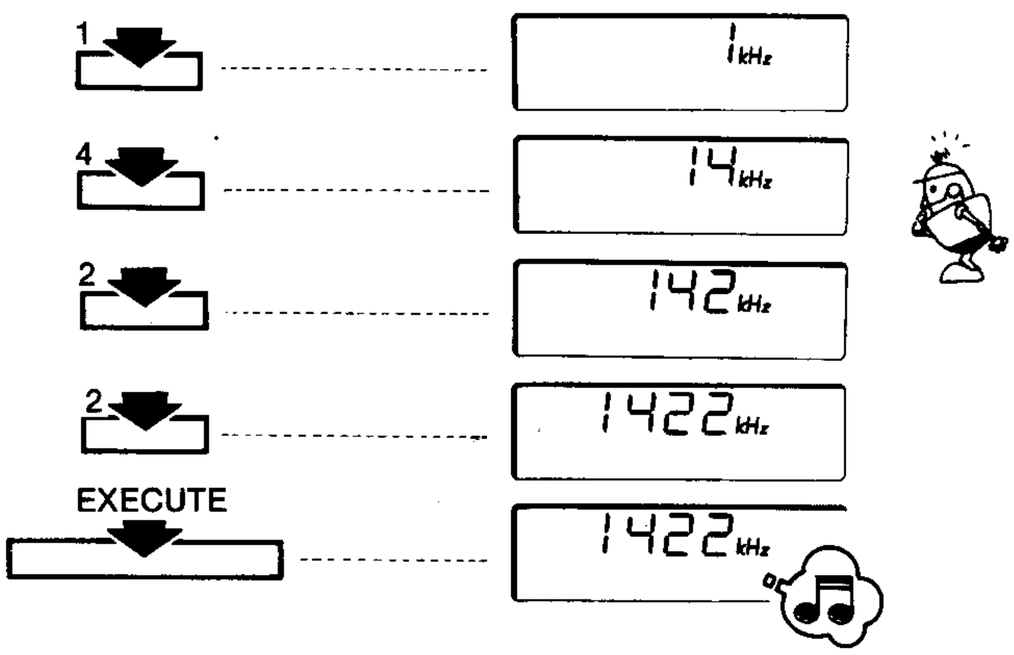
HOW TO INPUT A FREQUENCY TO THE KEYS

The frequency range of this radio is:
FM 87.50 to 108.00 MHz
AM 150 to 26,100 kHz
Press the Counter Keys, then press the EXECUTE key. You can now hear the station whose frequency you have just input.
Note: Press the EXECUTE key within 10 seconds after pressing the Counter Keys. If you do not, the previous station will come back again.

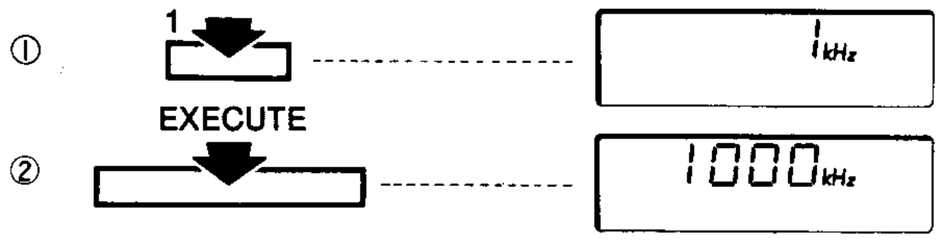
Input a frequency beginning at the digit farthest to the left.
Example 1: FM 90.1 MHz
❶ Press the Counter Keys in the order 9, 0, 1.
"90.10 MHz" is displayed in the Frequency Display.
❷ Press the EXECUTE key.



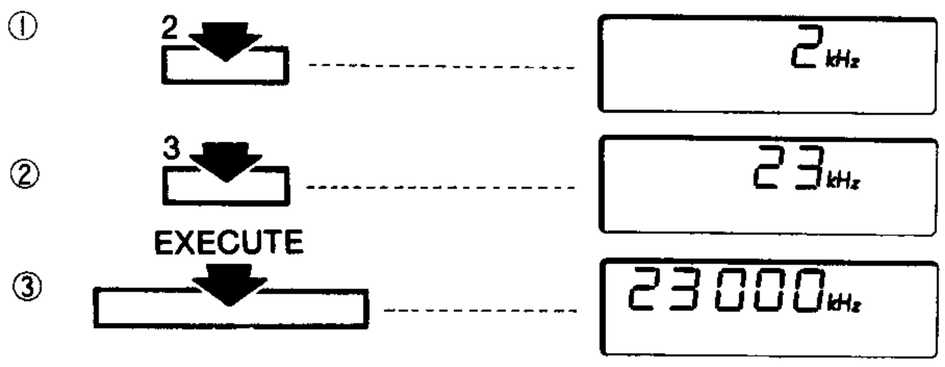
● When you input a frequency whose figures to the right of the decimal point are 00, as 90.00 MHz, simply press the Counter Keys 9 and 0, and press the EXECUTE key.
Example 2: AM 1,422 kHz
❶ Press the Counter Keys in the order 1, 4, 2, 2.
"1422 kHz" is displayed in the Frequency Display.
❷ Press the EXECUTE key.



To input an AM frequency whose three righthand digits are 000
Example 1: AM 1,000 kHz
❶ Press the 1 Counter Key.
❷ Press the EXECUTE key. "1000 kHz" is displayed in the Frequency Display.



Example 2: AM 23,000 kHz
❶ Press the 2 and 3 Counter Keys.
❷ Press the EXECUTE key. "23000 kHz is displayed in the Frequency Display.



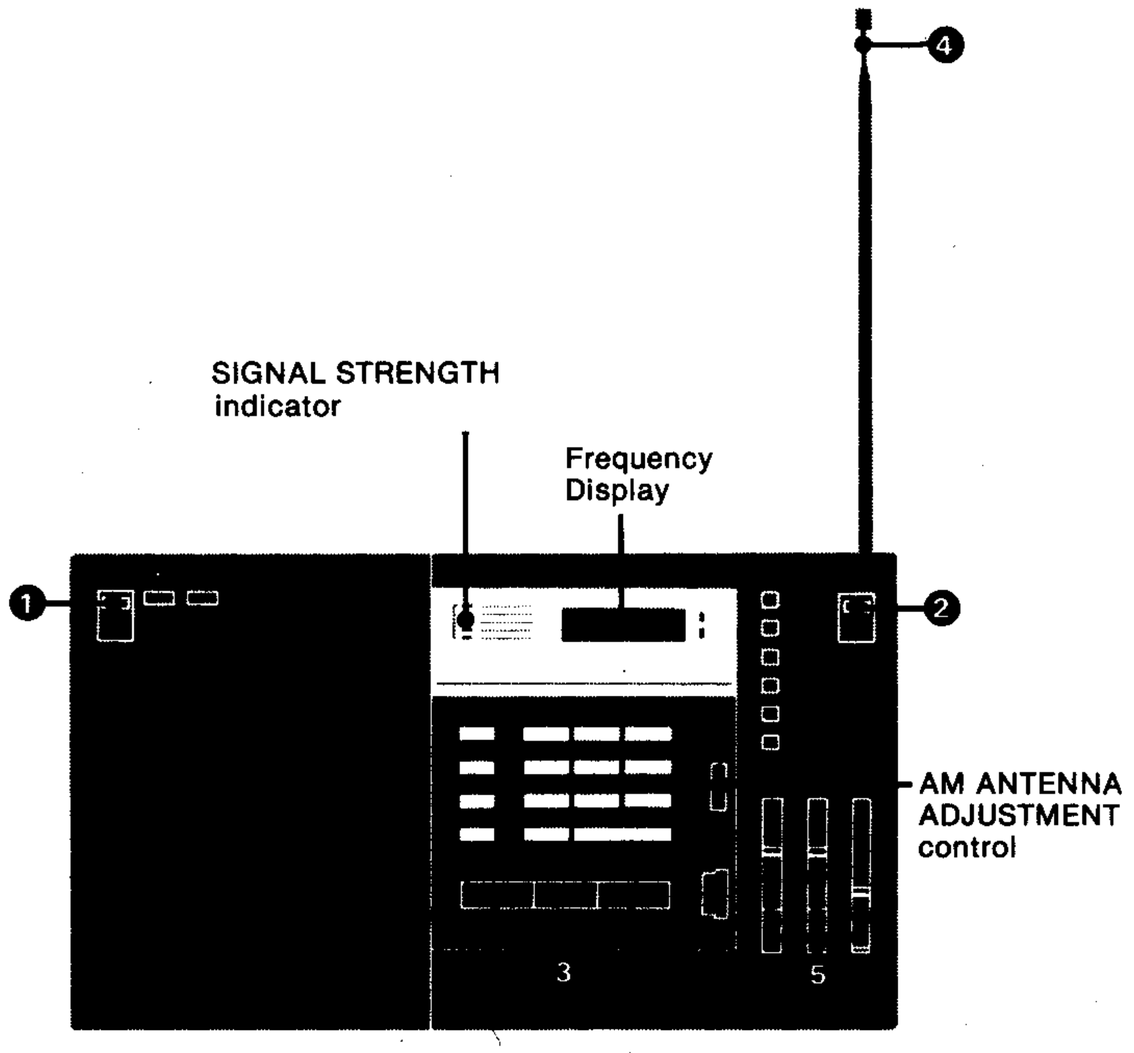
If you input a wrong frequency
Press the EXECUTE key and input the correct frequency.

The TRY AGAIN indication
If you input a frequency outside the frequency range (FM 87.5 to 108 MHz, AM 150 to 26,100 kHz), the indication TRY AGAIN will flash on and off in the Frequency Display. When you input a proper frequency, the TRY AGAIN indication will disappear. If you leave the TRY AGAIN indication flashing, it will disappear after about 10 seconds, and the tuned station's frequency will reappear.

Note: You can input a frequency of FM station up to the first figure to the right of the decimal point. The second figure to the right of the decimal point is always displayed as "0" even if you press a Counter Key. So if you want to tune in a station whose frequency has figures up to the second place to the right of the decimal point, such as some European FM stations, round the frequency off.

MANUAL TUNING

Use Manual Tuning when you do not know the Frequency of the station you want to tune in, or when you want to tune in a station more precisely after Scan Tuning.
● The numbers in the illustration refer to the sequence of operations.

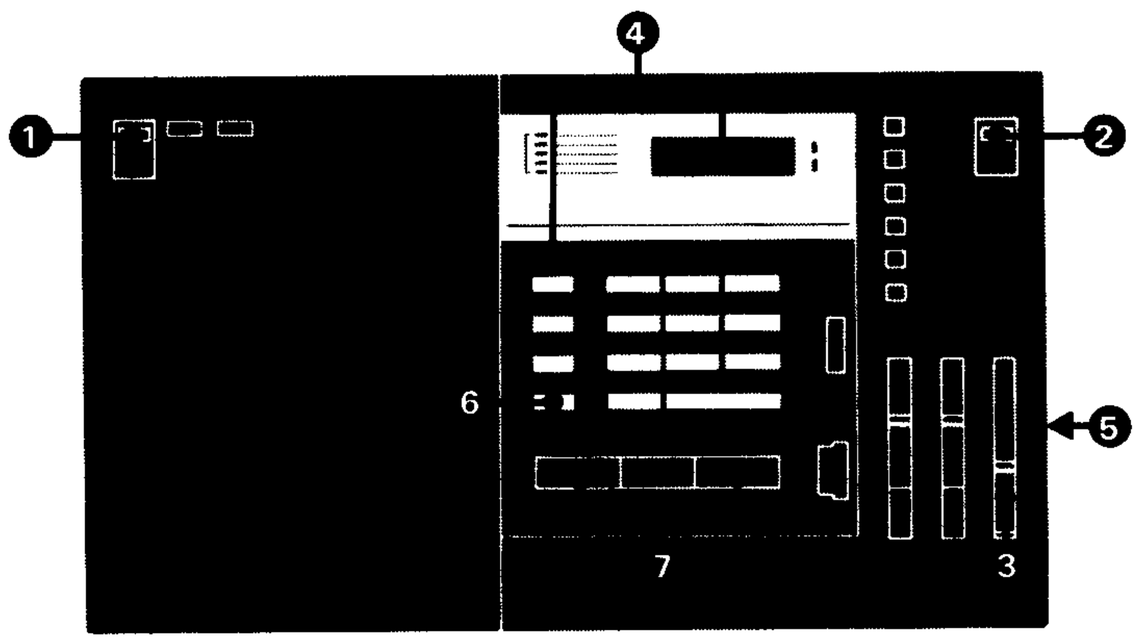


❶ Set the POWER swith to ON.
❷ Choose the desired band with the BAND selector.
❸ Press the UP ▶ Key (to increase the frequency) or the ◀ DOWN key (to decrease). If you keep the key depressed, the frequency changes continuously. If you keep the FAST and UP ▶ (or ◀ DOWN) keys depressed simultaneously, the frequency changes faster. When a station is heard, release the key (or keys). To tune in the station more precisely, press the UP ▶ or ◀ DOWN key once or more, observing the SIGNAL STRENGTH indicator. Tune so that as many LEDs as possible are lit.
❹ Adjust the Telescopic Antenna. See page 7.
For optimum AM reception, adjust the AM ANTENNA ADJUSTMENT control also.
Note: For AM 360 kHz to 2,143 kHz reception, the built-in ferrite bar antenna also operates. Lay the set down and rotate it to find the best position.
❺ Adjust the volume with the VOLUME control and the tone quality with the BASS and TREBLE controls.
● Adjust the Telescopic Antenna when reception is poor or when a station cannot be heard even though its frequency is displayed.

SCAN TUNING

Input to the L1 and L2 keys the low and high limits of the frequency range which includes the stations you most often listen to. Then, use Scan Tuning.

● The numbers in the illustration refer to the sequence of operations.



❶ Set the POWER switch to ON.

❷ Choose the desired band with the BAND selector.

❸ Slide the VOLUME control towards MAX to get sound.

❹ Input the low and high limits of the desired frequency range to the L1 and L2 keys.

For example, input the frequency range of the International SW 31 meter band* with a low limit at 9,500 kHz, and a high limit at 9,775 kHz (with the BAND selector set to AM):

1. **Input 9,500 kHz to the L1 key.**
   Press the Counter Keys in the order 9, 5, 0, 0, and press the EXECUTE key. Check the indication in the Frequency Display. Then, while pressing the ENTER key, press the L1** key. The mark ❶ will appear in the Frequency Display to indicate that the frequency has been input to the L1 key.
2. **Input 9,775 kHz to the L2 key.**
   Press the Counter Keys in the order 9, 7, 7, 5, and press the EXECUTE key. Check the indication in the Frequency Display. Then, while pressing the ENTER key, press the L2** key. The mark ❷ will appear in the Frequency Display to indicate that the frequency has been input to the L2 key.
3. **Check your inputting.**
   Press the L1 (or L2) key. If the frequency input to the L1 (or L2) key appears in the Frequency Display when the L1 (or L2) key is pressed, you know the inputting is correct.
   The mark ❶❷ indicates that the frequencies are input to both L1 and L2 keys.

* The limits of SW broadcasting frequency bands are written in black and those of amateur broadcasting frequency bands in blue on the frequency band limit scale under the Frequency Display.

** Scanning begins from the low limit of a frequency range even if you input the low limit to the L2 key and the high limit to the L1 key.

❺ Set the SCAN AUTO STOP switch on the right side of the set to ON or OFF.

● With the SCAN AUTO STOP switch set to ON, scanning stops automatically when a station is tuned in.

● With the SCAN AUTO STOP switch set to OFF, scanning does not stop automatically.

❻ Press the START/STOP key. The radio begins scanning.

To stop scanning when the SCAN AUTO STOP switch set to OFF, press the START/STOP key again.

❼ If you want to tune in the station more precisely, use Manual Tuning.

Press the UP ▶ or ◀ DOWN key once or more, observing the SIGNAL STRENGTH indicator. Tune so that as many LEDs as possible are lit.

❽ Adjust the Telescopic Antenna. See page 7.

For optimum AM reception, adjust the AM ANTENNA ADJUSTMENT control also.

If reception is unsatisfactory with the Telescopic Antenna, connect an external antenna. See page 12.

❾ Adjust the volume with the VOLUME control and the tone quality with the BASS and TREBLE controls.

Note: For AM 360 kHz to 2,143 kHz reception, the built-in ferrite bar antenna also operates. Lay the set down and rotate it to find the best position.

Notes on inputting a frequency to the L1 and L2 keys

● The AM 150 kHz frequency is preset at the factory to both L1 and L2 keys.

● Once input, the frequency will not be cancelled until another frequency is input.

● You can change the frequency input to either the L1 or the L2 key.

● If you input AM frequencies to the keys, any previously input FM frequencies will be erased*, or vice versa. When next scan tuning the FM band, input them again if required.

* Check the ❶❷ indication in the Frequency Display. If this indication does not appear when the BAND selector set to FM, FM frequencies are not input to the L1 and L2 keys.

Scan Start/Stop Key and Scan Tuning

If you press the START/STOP key, the radio begins scanning from the low limit of the frequency range. When scanning reaches the high limit, it will come back to the low limit and begin scanning again. The frequency changes by the interval of 0.1 MHz on the FM band and 3 kHz on the AM band. To stop scanning, press the START/STOP key again.

Note: When automatic scanning with the SCAN AUTO STOP switch set to ON, the following may happen:

• Weak-signal stations cannot be tuned in.

• Scanning stops at a noise.

To tune in a station precisely

● When automatic scanning with the SCAN AUTO STOP switch set to ON, scanning may stop a little before or after the exact frequency of the station. When this happens, press the UP ▶ or ◀ DOWN key as necessary to tune in precisely.

● When scan tuning with the SCAN AUTO STOP switch set to OFF, scanning stops a little after the exact frequency of the station, even if you press the START/STOP key immediately after the station is heard. Press the ◀ DOWN or UP ▶ key as necessary to tune in precisely.

● When AM reception is difficult, check that the RF GAIN selector is set to another position than LOCAL.

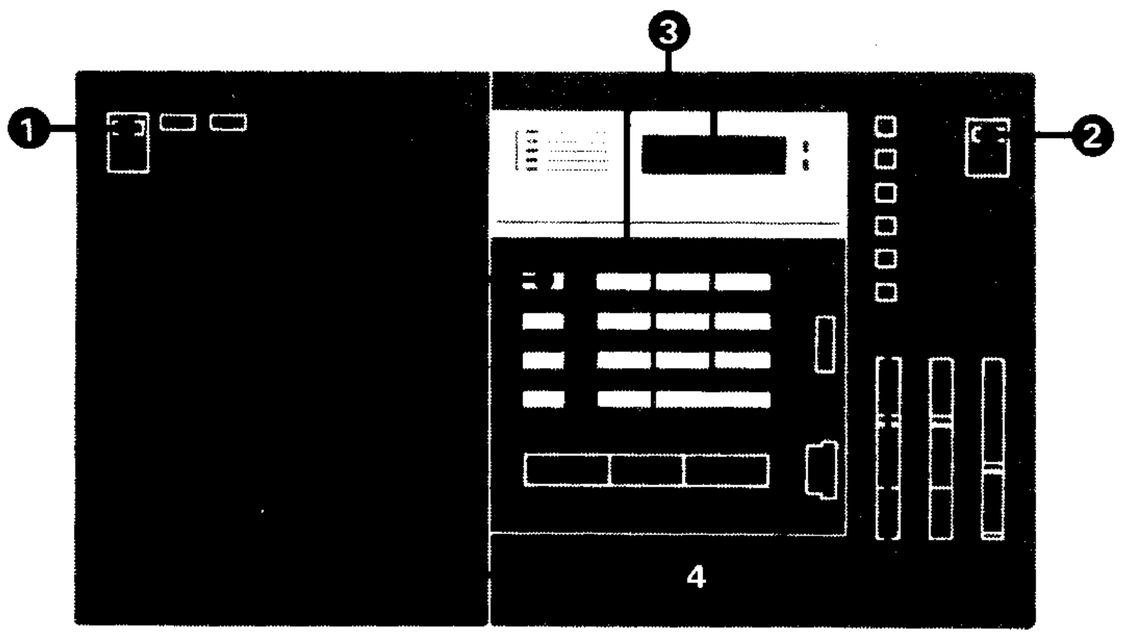
Scan Tuning and the other tuning methods

During scan tuning, you can tune in a station by any of three other methods—Direct, Manual or Preset Tuning. When you proceed with Scan Tuning after using another method, if the frequency of the last station tuned in is inside the scanning frequency range, scanning begins from the frequency of the last station.

MEMORY PRESET AND PRESET TUNING

HOW TO PRESET

● The numbers in the illustration refer to the sequence of operations.



❶ Set the POWER Switch to ON.
❷ Choose the desired band with the BAND selector.
❸ Tune in the station you want to preset using any tuning method—Direct, Manual, or Scan Tuning.
❹ To preset the station being received, hold down the ENTER key and press one of the six MEMORY PRESET buttons. The 1 to 6 indications in the Frequency Display show that a station has been preset to the MEMORY PRESET button with the same number as that of the indication. For example, if you preset FM stations to the MEMORY PRESET buttons 1 and 2, AM stations to the buttons 3, 4, 5 and 6, the 1 and 2 indications will appear in the Frequency Display when the BAND selector is set to FM, and the indications 3, 4, 5, and 6 when the BAND selector is set to AM.

Notes

● The AM 150 kHz frequency is preset to all MEMORY PRESET buttons at the factory.
● Either an FM station or an AM station can be preset to a MEMORY PRESET button, for a total of 6 stations. The L_1 and L_2 keys can be used as MEMORY PRESET buttons, making it possible to preset 8 stations in all.
● If you want to add a new station and all MEMORY PRESET buttons have already been preset, the presetting of one button will have to be changed.

TO CHECK YOUR PRESETTING

If you get the station just preset by the following steps ❶ and ❷, you know the presetting is correct and you can get this station anytime by pressing the MEMORY PRESET button.

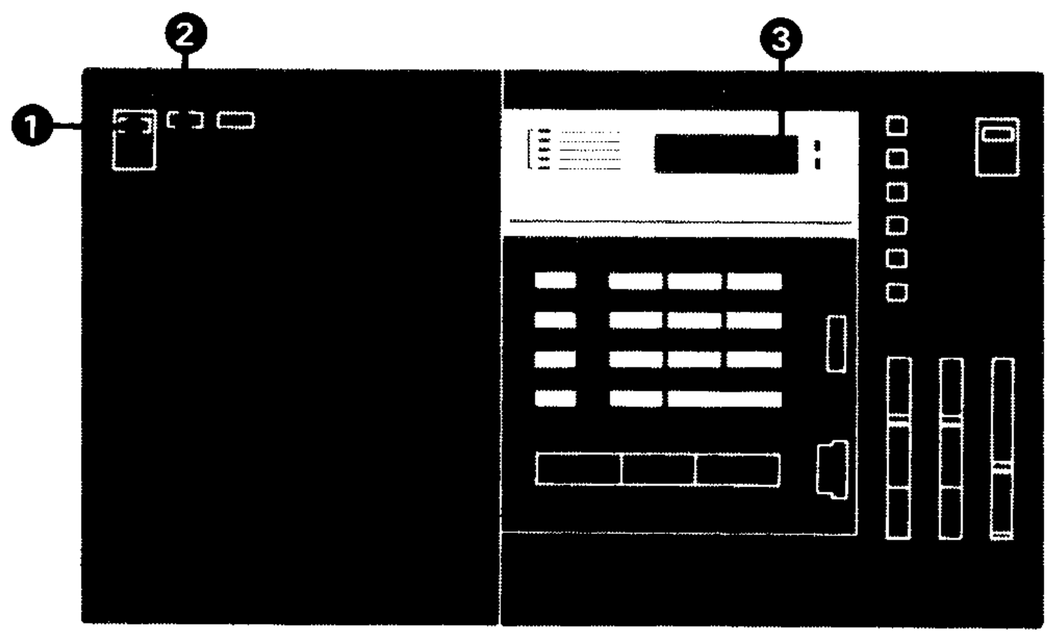
❶ Tune in a station different from the station just preset by Direct, Manual or Scan Tuning.
❷ Press the MEMORY PRESET button to which you have just preset a station.

TO TUNE IN A PRESET STATION

❶ Set the POWER switch to ON.
❷ Choose the desired band with the BAND selector.
❸ Press the appropriate MEMORY PRESET button. The preset station will be tuned in.

HOW TO TURN THE RADIO OFF AUTOMATICALLY

Use the sleep timer of this radio to turn it off automatically.
● The numbers in the illustration refer to the sequence of operations.



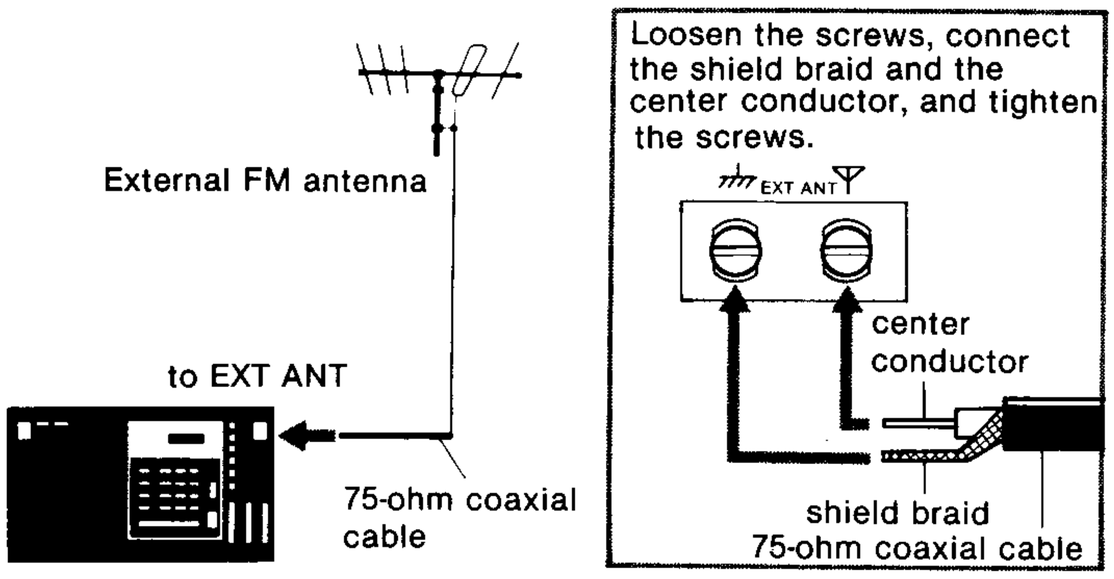
❶ Set the POWER switch to OFF.
❷ Press the SLEEP button. The radio is prepared to receive a signal. Then tune in the desired station.
❸ Set the sleep timer by pressing the SLEEP button.
The upper right-hand corner of the Frequency Display will indicate "90"—the number of minutes before the radio will automatically turn off. To reduce the number of minutes before the radio will turn off, press the SLEEP button. The number of minutes indicated in the display will be reduced by 10 every time the SLEEP button is pressed. If the button is pressed once more when 10 is displayed, the display will disappear and the radio will turn off.
● To turn off the radio before the end of the sleep timer operation, set the POWER switch to ON and return it to OFF.

Notes

● If you set the POWER switch to ON during the sleep timer operation, the sleep timer will be cancelled and the radio will not be turned off automatically.
● Check that nothing is connected to the Timer Input Jack [🕓] on the left side. The sleep timer will not operate if the plug of a timer is connected to this jack.

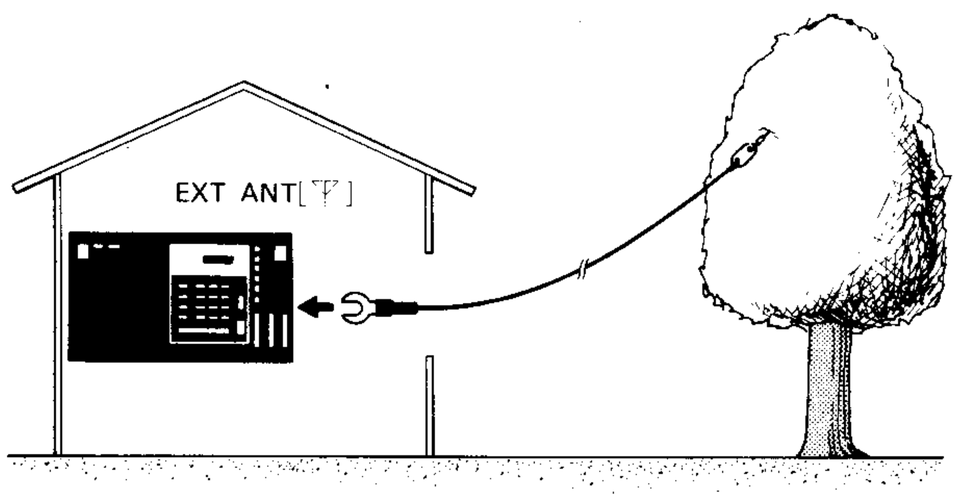
EXTERNAL ANTENNA CONNECTION

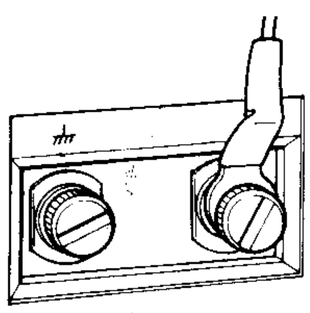
FOR FM RECEPTION
In a steel-frame building, a mountainous area, at a distance from the transmitter or in a location where ignition noise is severe, FM reception may be unsatisfactory with the Telescopic Antenna. In this case, connect a commercially available external FM antenna to the EXT ANT terminals on the right side of the set as illustrated. Use a 75-ohm coaxial cable as an antenna wire.


External FM antenna
to EXT ANT
75-ohm coaxial cable
Loosen the screws, connect the shield braid and the center conductor, and tighten the screws.
EXT ANT
center conductor
shield braid
75-ohm coaxial cable

Notes
- When using an external antenna, retract the Telescopic Antenna.
- Locate an outdoor antenna as far away from the street as possible.
- For further details, see the antenna's instruction manual.

FOR AM RECEPTION
Usually the Telescopic Antenna is sufficient for AM reception. However, in a building or for more stable AM reception, the use of the supplied AM External Antenna is recommended. Connect the spade lug to the ⏄ terminal of the EXT ANT terminals on the right side. Extend the wire outdoors as high as possible.
When reception is noisy, connect a ground wire. Connect the end of the ground wire to the ⏚ terminal of the EXT ANT terminals, and the other end directly to a convenient earth ground.

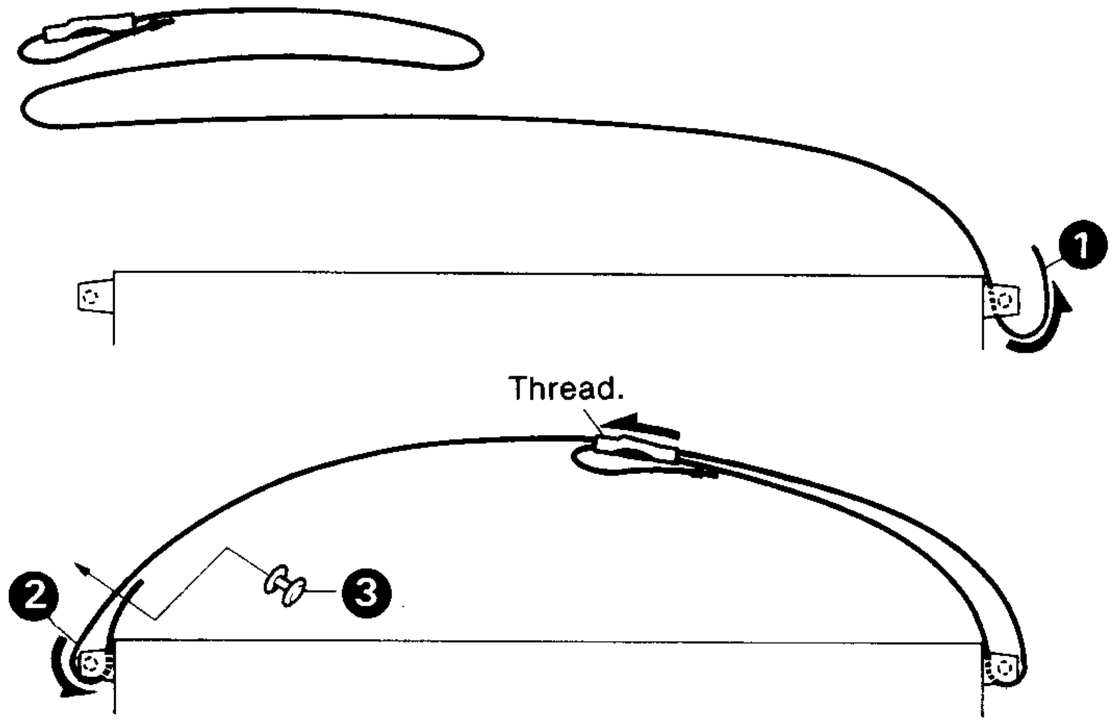




NOTES
- You could cause a fire if you connect a ground wire to a gas pipe. Never do it.
- When there is lightning and you are using an external antenna, immediately disconnect the AC power adaptor (if connected) from the wall outlet. Never touch the antenna wire when there is lightning storm.

ATTACHING THE SHOULDER STRAP

❶ Unbutton the button at the end of the strap, and with the seamless side up, thread the strap through one of the belt loops on the top of the radio.
❷ Thread the other end of the strap through the other belt loop on the radio.
❸ Insert the button.



SPECIFICATIONS

Semiconductors	1 LSI, 9 ICs, 11 FETs, 49 transistors, 36 diodes (5 LEDs included)
Circuit system	FM: Superheterodyne AM: Dual conversion superheterodyne
Frequency range	FM 87.5 to 108 MHz AM 150 to 26,100 kHz (2,000 to 11 m)
Antennas	Telescopic antenna (AM/FM) Built-in ferrite bar antenna (AM 360 to 2,143 kHz) External antenna terminals (AM/FM)
Speaker	Approx. 10 cm (4 inches) diameter
Power output	1,200 mW (at 10% harmonic distortion), 1,600 mW (max.)
Input	Timer input jack (minijack)
Outputs	Recording output jack (minijack) output level 0.8 mV (−60 dB) output impedance 1 kilohm Earphone jack (minijack) for 8 ohm earphone
Power requirements	Radio: 4.5 V dc, three IEC designation R20 batteries (D size) 110, 127, 220 or 240 V ac 50 Hz with optional Sony AC-122 AC Power Adaptor 12 V car battery with optional Sony DCC-127A Car Battery Cord Computer: 3 V dc, two IEC designation R6 batteries (AA size)
Power consumption	16 W ac at 50 Hz with Sony AC-122 AC Power Adaptor
Battery life	Radio: with Sony SUM-1S Super Batteries: Approx. 9 hours, if tuned to AM Approx. 10 hours, if tuned to FM Computer: with Sony SUM-3S Super Batteries, approx. 1 year of continuous operation
Dimensions	Approx. 310×171×56 mm (w/h/d) (12¼×6¾×2¼ inches) including projecting parts and controls
Weight	Approx. 1,800 g (4 lb) including batteries
Accessories supplied	1 Earphone 1 Shoulder Strap 1 AM External Antenna 1 Station Label

Design and specifications subject to change without notice.

Optional accessories
AC Power Adaptor AC-122, Car Battery Cord DCC-127A, Connecting Cord RK-69A (miniplug to miniplug)

TROUBLESHOOTING GUIDE

Should any problem occur with the set, make the following simple tests to determine whether or not servicing is required.
If the problem persists after you have made these tests, consult the nearest Sony dealer for further information.

Frequency Display section

No display or incorrect display
- Incorrect polarity of computer batteries.
- Weak computer batteries.
- Computer batteries were replaced within a minute after their removal. In this case, remove computer batteries, and after a minute or more, insert the batteries again.

Display is dim.
- Weak computer batteries.

Replace computer batteries once a year.
- The set is being used in extremely high temperatures or in a place with excessive moisture.

Radio section

Sound is not heard at all.
- The VOLUME control is slid to MIN.
- The earphone is plugged in.
- Incorrect polarity of radio batteries.
- Weak radio batteries.
- The ac power adaptor is not connected on ac operation.
- Battery operation is attempted while an ac power adaptor or a car battery cord is connected to the set, but not to a wall outlet or a cigarette lighter socket.
- A timer is connected to the ⏲ jack.

Very weak or interrupted sound, or unsatisfactory reception.
- Weak radio batteries.
- Tuning or antenna adjustment is not correct.
- Weak signal.

When in a vehicle or in a building, listen near a window.
- Figures on the Frequency Display differ a little from the acted station frequency.

Tune more precisely with the UP ▶ or ◀ DOWN key.

Frequency cannot be input when Direct Tuning.
- The EXECUTE key was not pressed within 10 seconds after the Counter Keys have been pressed.

Scanning or presetting frequency cannot be input.
- The EXECUTE key was not pressed after the Counter Keys have been pressed.
- To input a frequency, while pressing the ENTER key, press the L_1 or L_2 key, or one of the MEMORY PRESET buttons.

The set will not scan.
- No frequency is input to the L_1 and L_2 keys.

Check that the 1▶2 indication is displayed on the Frequency Display.

Scanning does not stop automatically during automatic scanning.
- The SCAN AUTO STOP switch on the right side of the set is set to OFF.
- Weak signal.
- The RF GAIN switch is set to LOCAL.

Preset station cannot be tuned in, even though the MEMORY PRESET button is pressed.
- Incorrect setting of the BAND selector.
- The memory has been erased.

Preset again after replacing computer batteries.

The radio does not turn off at the time set by the SLEEP button.
- The POWER switch is set to ON.

End of english Operating Instructions